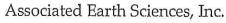
### **APPENDIX**

## **Exploration Logs**

n	fig	7000		Well-graded gravel and	Terms Describing Relative Density and Consistency
Fine-Grained Soils - 50% (1) or More Passes No. 200 Sieve Coarse-Grained Soils - More than 50% (1) Retained on No. 200 Sieve	se Frac	GW G G G G G G G G G G G G G G G G G G	gravel with sand, little to no fines	Density SPT <sup>(2)</sup> blows/foot Very Loose 0 to 4	
	50% <sup>(1)</sup> of Coars on No. 4 Sieve	00000000	GP	Poorly-graded gravel and gravel with sand, little to no fines	Grained Soils
	- More than 50% <sup>(1)</sup> of Coarse Fraction Retained on No. 4 Sieve	0 00 00 00 00 00 00 00 00 00 00 00 00 0	GM	Silty gravel and silty gravel with sand	Consistency
	Gravels - N	NI TO	GC	Clayey gravel and clayey gravel with sand	Very Stiff 15 to 30 Hard >30
			sw	Well-graded sand and sand with gravel, little to no fines	Descriptive Term Boulders Cobbles  Component Definitions Size Range and Sieve Number Larger than 12"  3" to 12"
	50% <sup>(1)</sup> or More of Coarse Fraction Passes No. 4 Sieve	%C941	SP	Poorly-graded sand and sand with gravel, little to no fines	Gravel 3" to No. 4 (4.75 mm) Coarse Gravel 3" to 3/4" Fine Gravel 3/4" to No. 4 (4.75 mm) Sand No. 4 (4.75 mm) to No. 200 (0.075 mm)
	50% (1) or More Passes No.		SW	Silty sand and silty sand with gravel	Coarse Sand No. 4 (4.75 mm) to No. 10 (2.00 mm)  Medium Sand No. 10 (2.00 mm) to No. 40 (0.425 mm)  Fine Sand No. 40 (0.425 mm) to No. 200 (0.075 mm)  Silt and Clay Smaller than No. 200 (0.075 mm)
	Sands -		sc	Clayey sand and clayey sand with gravel	(3) Estimated Percentage Component    Component   Percentage by   Weight   Dry - Absence of moisture, dusty, dry to the touch   Component   Component
	rs han 50	CL	Silt, sandy silt, gravelly silt, silt with sand or gravel	Trace <5 Slightly Moist - Perceptible Few 5 to 10 moisture Little 15 to 25 Moist - Damp but no visible With - Non-primary coarse water	
	Silts and Clays Liquid Limit Less than 50		CL	Clay of low to medium plasticity; silty, sandy, or gravelly clay, lean clay	constituents: ≥ 15% Very Moist - Water visible but - Fines content between not free draining 5% and 15% Wet - Visible free water, usually from below water table
	S Liquid		OL.	Organic clay or silt of low plasticity	Symbols  Blows/6" or Sampler portion of 6"  Type  Cement grout surface seal
	ys . More		МН	Elastic silt, clayey silt, silt with micaceous or diatomaceous fine sand or silt	2.0" OD Split-Spoon Sampler 3.0" OD Split-Spoon Sampler Seal Seal Seal Seal Seal Seal Seal Seal
	Silts and Clays Liquid Limit 50 or More		СН	Clay of high plasticity, sandy or gravelly clay, fat clay with sand or gravel	Bulk sample  3.25 OD Spiit-Spoot hirtig Sampler  3.0" OD Thin-Wall Tube Sampler  (including Shelby tube)  Grab Sample
	Liqu		он	Organic clay or silt of medium to high plasticity	Percentage by dry weight  (2) (SPT) Standard Penetration Test  (4) Depth of ground water  ATD = At time of drilling
Highly Organic Soils				Peat, muck and other highly organic soils	(ASTM D-1586)  (3) In General Accordance with  Standard Practice for Description and Identification of Soils (ASTM D-2488)  ATD = At time of drilling Static water level (date)  (5) Combined USCS symbols used for fines between 5% and 15%

Classifications of solls in this report are based on visual field and/or laboratory observations, which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field or laboratory testing unless presented herein. Visual-manual and/or laboratory classification methods of ASTM D-2487 and D-2488 were used as an identification guide for the Unified Soil Classification System.



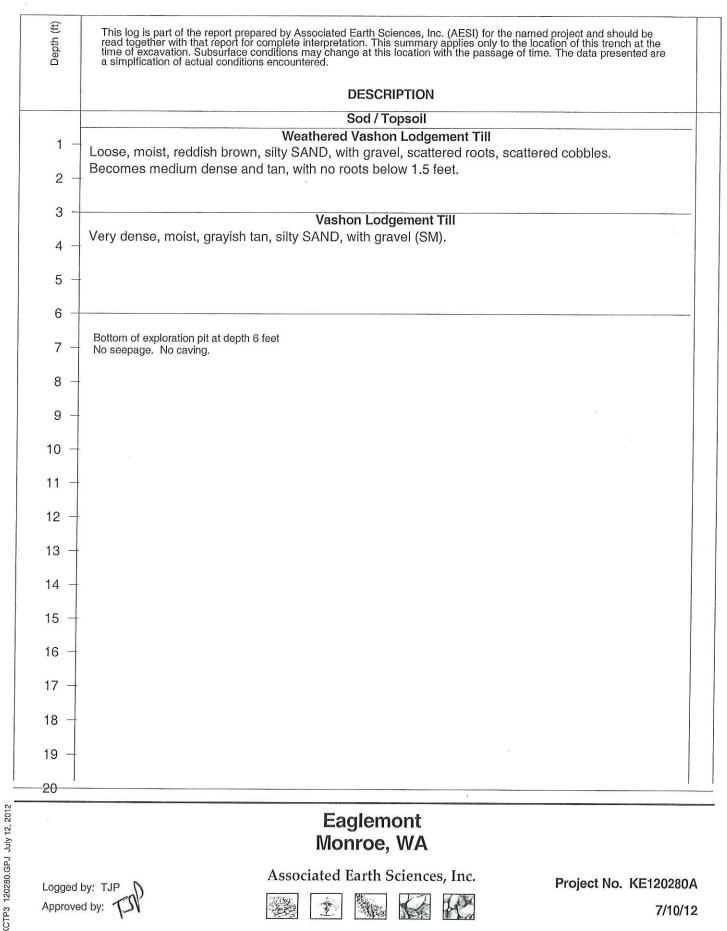












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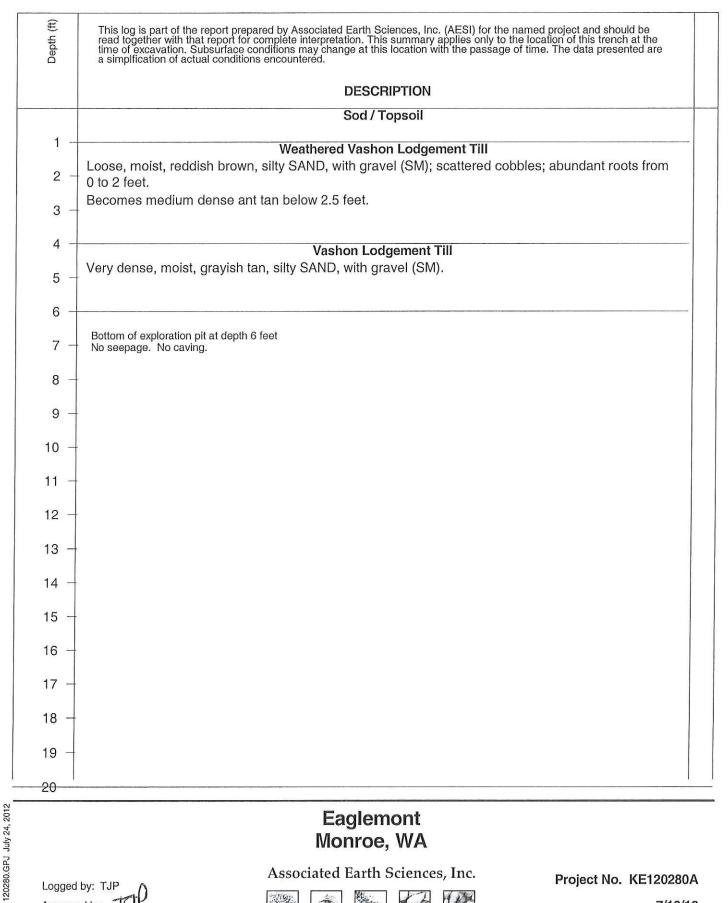












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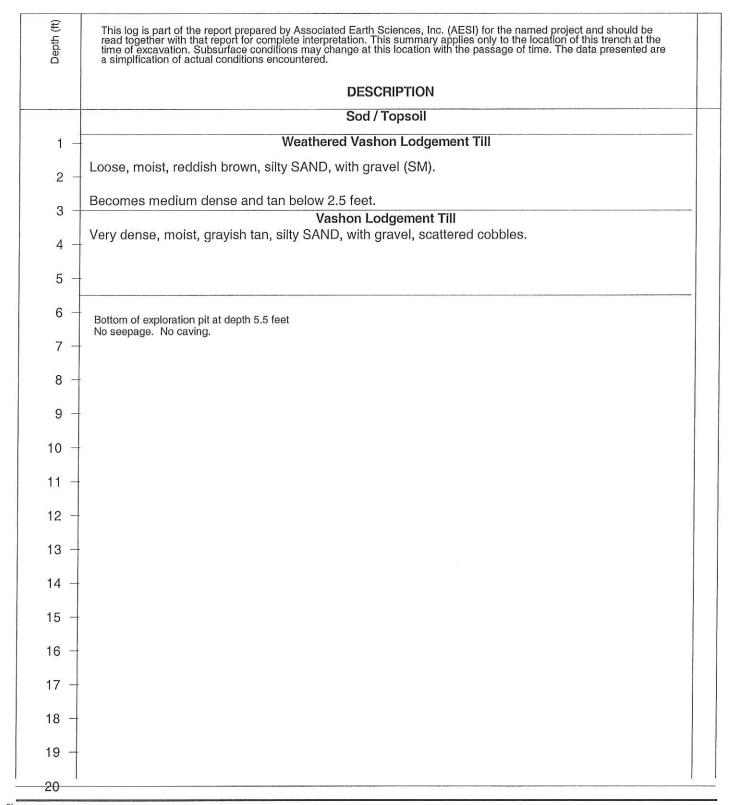












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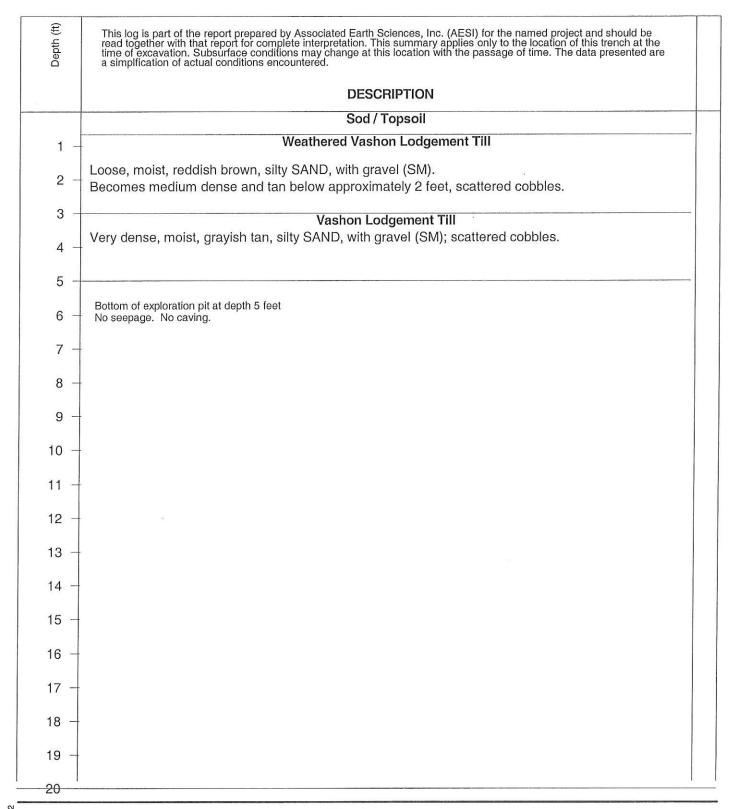








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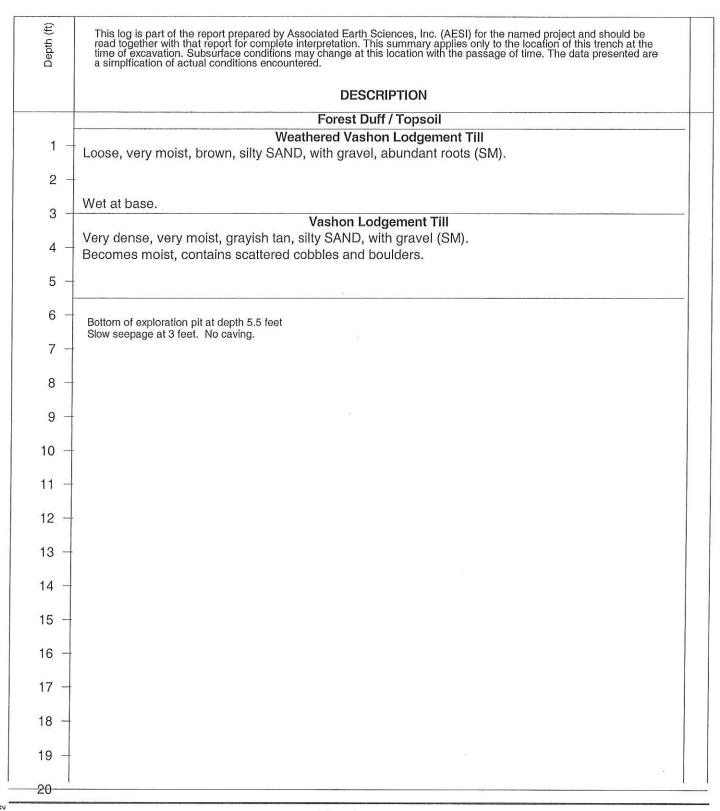








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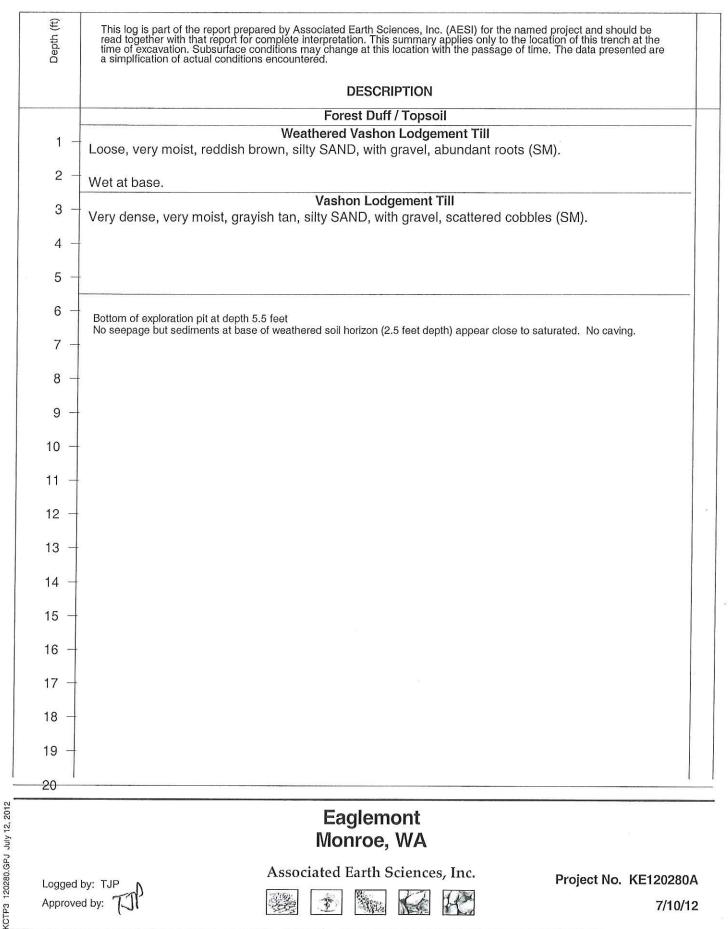












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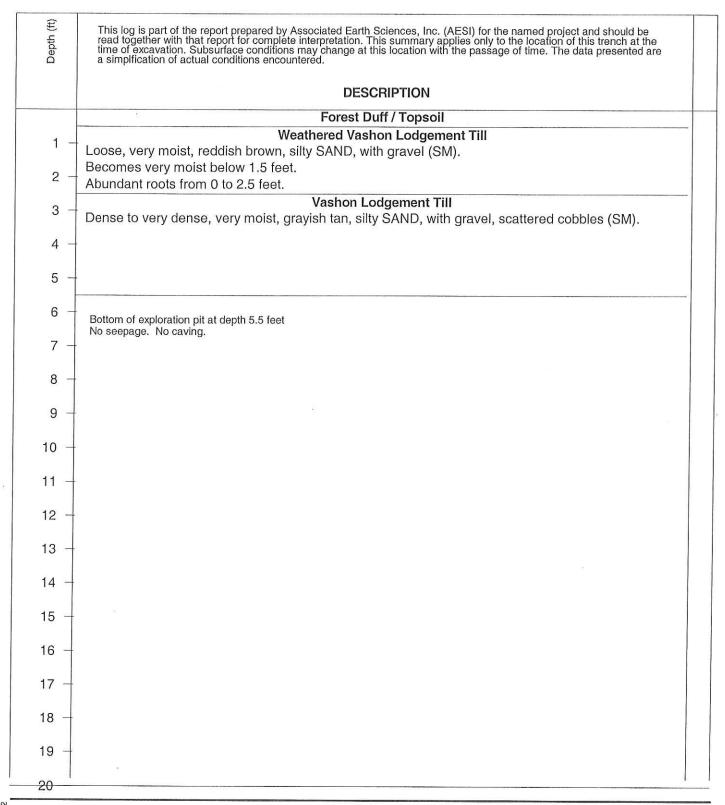
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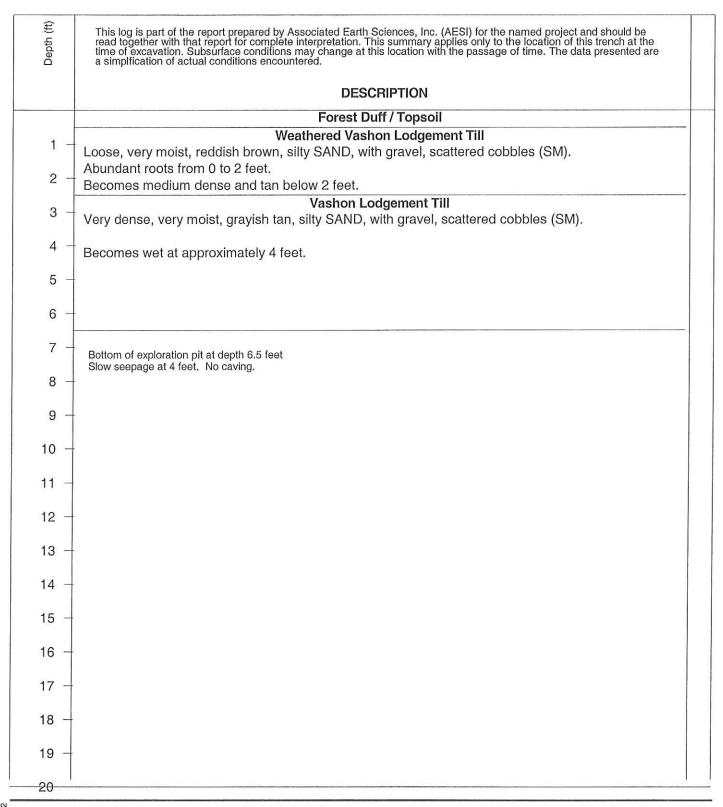








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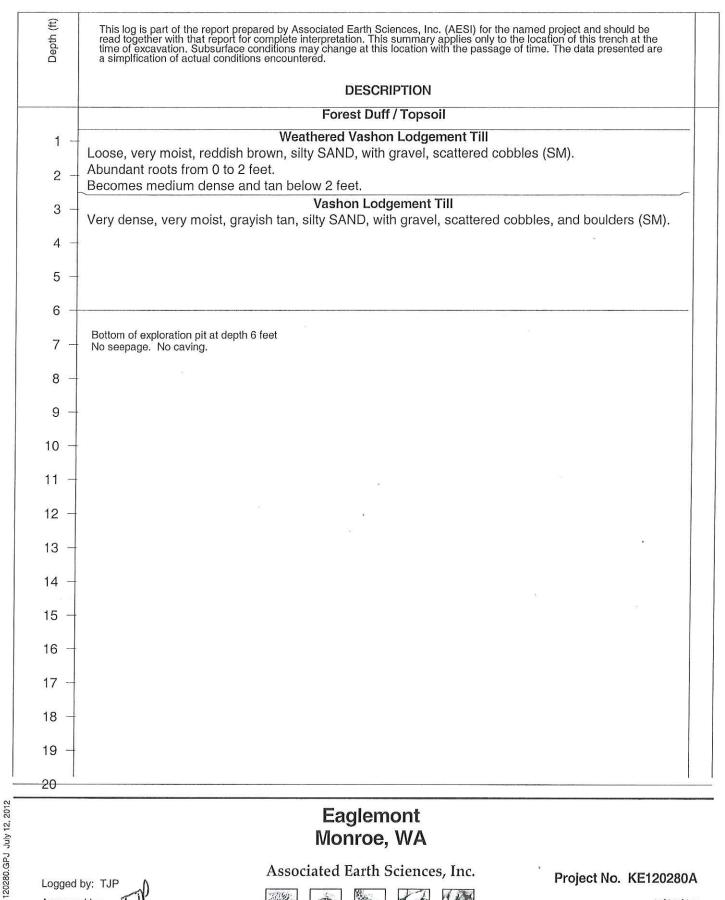








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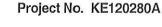
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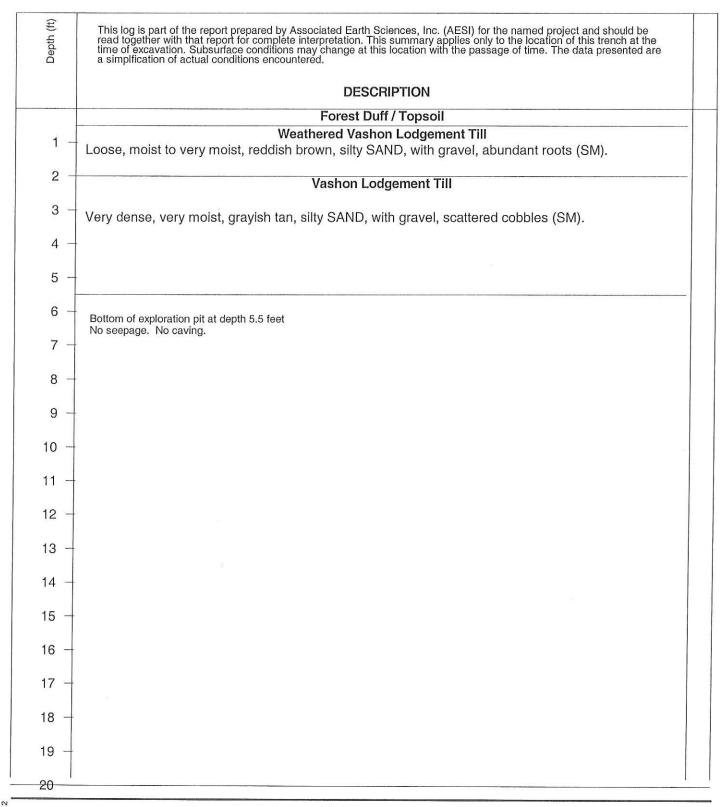












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